



Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY

G T Road By Pass, Jalandhar-144011, Punjab (India)
EPABX-0181-2690301 & 45`3 website: www.niti.ac.in email: registrar@niti.ac.in

Ref. e-Tender Notice No. NITJ/PUR/IPE/111/19/e-tender No-77/2021

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Assistant Registrar

Dr. B. R Ambedkar NIT Jalandhar

Email: arpurchase@niti.ac.in



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THIS DOCUMENT IS FOR REFERENCE ONLY. ONLY E-TENDERS WILL BE ACCEPTED

e-Tender Notice No. NITJ/PUR/IPE/111/19/e-tender No-77/2021

National Institute of Technology, Jalandhar invites e-tender for Purchase of Various Equipments/Instruments/Kits for Internet of Things Lab required for the department of Industrial and Production Engineering as per detail available at Annexure-I along with Tender Fee & EMD of the Institute as per details given below:

I	Downloading & Submission of Online e-tender/bids	Start Date: 28.10.2021 at 04:00 PM
II	Last date of submission of online bids	End Date: 18.11.2021 upto 04:00 PM
III	Physical submission of Tender Fee and EMD	End Date: 22.11.2021 upto 04:00 PM
IV	Opening of Technical e-Bid (online)	22.11.2021 at 04:00 PM

Detailed Terms and Conditions are available in e-tender document. The bid document can be downloaded from the [CPP Portal](#). The bidders must quote for all the Products/Equipments/Instruments/Kits as mentioned in the tender documents, otherwise bid is liable to be rejected. The order will be issued to vendor on overall L1 cost of all Equipments/Instruments/Kits so as to avoid any compatibility issues.

Complete tender document is available for reference purposes on Institute website www.niti.ac.in and [CPP Portal](#). Only e-tenders will be accepted.

NOTE: This is a domestic Tender according to the DPIIT Order dated 16.09.2020 and subsequent amendments to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA. The bidder required to declare on the letter head the percentage of Local content for the quoted instrument/Item and submit with the Technical Bid as per Annexure-G. Bidder should also give details of the location(s) at which the local value addition is made in the Annexure.

Registrar



Ref. No. e-Tender Notice No. NITJ/PUR/IPE/111/19/e-tender No-77/2021

Detail of Equipment, Tender Fee & EMD are as under:

Sr. no.	Equipments/Instruments/Kits	Qty.	Tender Fee	EMD
1.	IOT Sensor Node / Mote training Hardware Kit	15	Rs. 500/-	Rs.10,000/-
2.	IOT Wireless Sensor Node (Wifi + BLE)	15		
3.	IOT Wireless Camera Sensor Node (Built in camera)	10		
4.	IOT Processing Module	05		
5.	IOT Communication Module – 1 (BLE on ISM Band)	10		
6.	IOT Communication Module- 2 (2.4 GHz Nrf)	15		
7.	IOT Communication Module- 3 (2.4GHz Zigbee)	06		
8.	IO/T Sensor & Actuator Kit	01		
9.	Vibrator Feeder with load cell and spare electromagnet (With two Controllers i.e. manual and PLC integrable)	01		
10.	Human Machine Interface (HMI- Touch screen)	01		
11.	Servo Motor & Drive	01		
12.	Soldering Iron 60W 220V Temperature Adjustable, with Magnifier Tool stand	05		

Note: The quantity of required equipment/item may vary as per requirement.

***Exemption of Tender fee & EMD will only be given to MSME/NSIC registered bidders.**



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Important Note

1. All corrigenda, addenda, amendments and clarifications regarding this tender document will be uploaded on the website www.nitj.ac.in and CPP Portal and not in the newspaper; Bidders shall keep themselves updated with all such developments.
 2. In case, the last date of receipt/opening of bids falls on holiday, the bids shall be receipt/opened on the next working day at same time.
 3. In case, the last date of submission of EMD & Tender fee falls on holiday, the EMD & Tender fee shall be submitted on the next working day at same time.
 4. Tenderer who have downloaded the tender document form from the institute website, shall submit a declaration along with tender document that I/We have downloaded the Tender Form from the institute website www.nitj.ac.in and I/we have not tempered /modified the tender form in any manner. In case, if the same is found to be tempered/modified in any manner, I/we understand that my/our tender will be summarily rejected and I/we are liable to be banned from doing business with institute.
 5. **Tender fee of Rs.500/- (Non- refundable) in the form of DD in favour of Director, D R B R Ambedkar NIT, Jalandhar.**
 6. **EMD (refundable) in the form of DD in favour of Security- A/c. DR B R Ambedkar NIT, Jalandhar.**
 7. **Both EMD and Tender fee are be submitted as per dates mentioned in schedule, failing which e-bids will not considered.**
- ❖ **All the bidders are required to submit the Tender Fee and EMD as per requirement of tender document failing which bids received straightway rejected and bid will be treated invalid.**
 - ❖ **Note: If the bidder inadvertently or otherwise upload the quoted rates in the technical bid, the bid will be straightway rejected and treated invalid.**
 - ❖ **If the bidder is exempted for payment of Tender Fee and EMD as NSIC/MSME registered bidders, then bidder is required to submit NSIC/MSME exemption certificate for same. The Certificate must be valid as on last date of submission of bid.**

Tenderer must submit a scanned copy (duly signed and stamped) regarding terms & conditions as per our tender documents along-with make/model, specifications, bill of quantity as per required equipment in the technical bid for examine the bid as per our institute tender documents. It is noted that no rate should be depicted in the letter head.



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Instructions to Tenderer

1. No tender will be accepted in physical form. The bidders shall have to submit their bids online in Electronic Format under Digital Signatures. For participation in the e-tendering process, the bidders need to register themselves on CPP Portal.
2. Bids are to be submitted online and opened online as per time given failing which no tender will be considered.
3. Bids will be opened online as per time given schedule.
4. **Before submission of online bids, bidders must ensure that scanned copies of all the necessary/relevant documents have been uploaded with the bid which should be duly signed and stamped. The duly signed and stamped copies of Terms & Conditions of the tender, reply of the Questionnaire of Plant & Machinery and other documents of the Tender & Annexures must be uploaded, failing which their bids may be rejected.**
5. NIT JALANDHAR, will not be responsible for any delay in online submission of bids due to any reason whatsoever.
6. **Bidders should also upload the scanned copies of Tender fees/EMD/Exemption Certificate as specified in the tender documents along with online technical documents. EMD in the form of a Demand Draft in favour of the Security – A/c, Dr B R Ambedkar NIT, payable at Jalandhar (refundable separate) and Tender Fee in the form of a Demand Draft in favour of the Director, Dr B R Ambedkar NIT, payable at Jalandhar (Non- refundable separate) should also be submitted in physical form to the following address as per scheduled time given for physical submission of EMD and Tender fee. The Envelope should be super-scribed as EMD and Tender Fee for Tender for Supply of Various Equipments/Instruments/Kits of the Institute and sent to following address:-**

**Kind Attention- Assistant Registrar (Purchase Section)
Director,
Dr B R Ambedkar National Institute of Technology,
G T Road Amritsar By Pass, Jalandhar-144001, Punjab (India).**

7. The details of EMD specified in the tender document should be same as submitted online (scanned copies). Otherwise tender will be rejected summarily.
8. The conditional bids shall not be considered and will be out rightly rejected.

Read and Accepted

(Signature & Stamp of Tenderer)



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9. The Financial Bid through e-tendering process shall be opened of only those bidders, who will qualify in the technical bid and approved by the Purchase Committee/Technical Experts. The date, time & place of opening of the financial bid(s) will be intimated in due course of time.
10. At any time prior to the deadline for submission of bid, the institute may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective tenderer(s), modify the tender document by issuance of an amendment.
11. The amendment will be uploaded on Institute website and CPP Portal only. In order to provide reasonable time to prospective tenderer(s), for preparing their bid as per amendment, the institute may, at its discretion extend the deadline for the submission of tender.
- 12. The supplier must upload the original manuals / catalogue and Make/Model of the Equipment /Item. Otherwise bid is liable to be rejected.**
13. The Institute is not liable to pay any interest on EMD. Earnest money deposit shall be forfeited, if the tenderer, withdraws its bid during the period of tender validity. The Earnest money deposit of the tenderer, whose tender has been accepted, will be returned on the submission of **performance security @ 3% of the total value of the offer. The performance security will be kept till the warranty period + 02 months more of the Equipment /Item. The warranty period will start from the date of satisfactory installation of the Equipment /Item duly given by the concerned department.** Earnest money deposit of the successful tenderer shall be forfeited, if it refuses or neglects to execute the contract or fails to furnish the required performance security within the time frame as specified by the institute. The EMD(s) of other Bidder(s) whose offer are found according to required specifications/lowest will be released after finalization of Technical Bids/ Lowest Bid/Purchase.
14. The Format of Performance Bank Guarantee bond or Performance Bank Guarantee issued by the bank as per the format given in **Annexure "B" & "C"**.
15. Delivery time is the essence of the contract and must be met with.
16. Nearest specifications/better specifications can be considered. In case of deviation, complete justification should be furnished with proper documents.
17. The Director may accept a tender in part or whole of the quantity offered, reject any tender without assigning any reasons and may not accept the lowest bidder. Further in case of any doubt/dispute, the decision of the Director of the Institute shall be final.
18. The offer shall be kept valid for minimum 120 days.

Read and Accepted.

(Signature & Stamp of Tenderer)



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19. a) Either the agent/ dealer on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
- b) If an agent/ dealer submits bid on behalf of the Principal/OEM, the same agent /dealer shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- c) Only one agent/dealer of single Principle/OEM can submit the bid. If more than one agent/dealer of same OEM/Principal quote in the tender, then bids of all the bidders of single OEM/Principle are liable to be rejected.
- d) All offers other than those from the Principal/OEM should be supported by an authority letter from the manufacturer authorizing the dealer /supplier to tender on their behalf as per **Annexure-D**. In case of manufacturer, a certificate or a copy thereof to the effect that the bidder is a manufacturer of the Equipment /Item must be accompanied with the technical bid.
20. The supplier will be responsible till the entire stores contracted for, arrive in good condition at destination.
21. The tenderer should not have been debarred and/ or blacklisted by any Central Government/ or any State Government Department(s) . This must be supported by an affidavit as per format given in **Annexure-“E”**.
22. If any information furnished by the bidder is, at any stage found to be incorrect/false/fabricated, the Institute shall have the absolute right to forfeit the EMD, warranty/performance guarantees or/and security deposits, in addition to cancellation of contract, and in accordance with law, such other actions may be taken like black-listing of the bidder etc.

Read and Accepted.

(Signature & Stamp of Tenderer)



TENDER EVALUATION

Institute will evaluate all the proposals to determine whether these are complete in all respects as specified in the tender document. Evaluation of the proposals shall be done in two stages as:

(a) Stage – I (Technical Evaluation):

- (i) Institute shall evaluate the technical bid(s) to determine the following like the bid qualifies the essential eligibility criteria or not, the tenderer has submitted the EMD & Tender fee or not, any computational errors have been made or not, all the documents have been properly filled or otherwise, all the documents have been submitted/ uploaded with technical bid or not, the specifications, Make/Model, Catalogue of quoted Equipment /Item are as per requirement tender specifications or not, Authorization of Dealer / Distributor/ Exclusive Agent certificate from manufacturer is in order or not, Sales & service policy of equipment / item during warranty period and after warranty period will also be seen, location of their authorized service center will also be seen for evaluation etc.

After evaluation of technical bid(s), a list of the qualifying tenderer (s)/ bidder s) shall be made. Short-listed tenderer(s) will be informed of the date, time and place of opening of financial bid(s) and they may attend or depute their authorized representative/s to attend the schedule of opening of financial bid(s) on the scheduled date and time, if they wish to do so. The representative(s) should have a letter of authority to attend the price bid(s) opening event.

Read and Accepted

(Signature & Stamp of Tenderer)



PART – II (e-FINANCIAL BID):

- a) Bidders should offer the rates as per the format of BOQ as available on CPP Portal. **Detailed bill of material/quantity is also to be provided along with the price breakup of each item as per requirement of the tendered specification of the equipment in the online price bid at [CPP Portal](#).**

❖ **Note: The quoted amount as filled in the Annexure(s) of online financial bid and detailed bill of material/quantity provided with price break up of each item in the online financial bid should be tallied and both must be same, otherwise bid will be treated invalid.**

Read and Accepted.

(Signature & Stamp of Tenderer)



ARBITRATION:

In case of any dispute or difference arising out in connection with the tender conditions/job order/Contract, the Institute and the Seller/Service Provider will address the dispute/difference for a mutual resolution and failing which, the matter shall be referred for arbitration to a sole Arbitrator to be appointed by the Institute.

The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Jalandhar only. The decision of the Arbitrator shall be final and binding on both the parties.

JURISDICTION:

The courts at Jalandhar alone will have the jurisdiction to trial any matter, dispute or reference between parties arising out of this tender / contract. It is specifically agreed that no court outside and other than Jalandhar Court shall have jurisdiction in the matter.

Read and Accepted.

(Signature & Stamp of Tenderer)



(TERMS AND CONDITIONS (FOR THE SUPPLY OF GOODS, EQUIPMENT /ITEM)

1. Rate should be quoted F.O.R NIT Jalandhar and In INR only.
2. Where the Equipment / Machinery/ Instrument are composed of several sub units/components, the rate should be quoted for each subunit/component separately. NIT Jalandhar reserves the right to increase or decrease the number of sub units/components and number of Equipment / Machinery/ Instrument according to its requirements.
3. The institute being government educational institute is having Excise and Custom duty exemption in terms of government notification No. 51/96-customs Dt. 23-7-1996 and No. 10/97-central excise Dt. 1-3- 1997 as amended from time to time, therefore taxes be quoted accordingly and this must be depicted in Price Bid clearly.
4. GST or any other chargeable duty where applicable must be specifically mentioned, failing which no tax or duty will be allowed at subsequent stage.
5. All items shall be indicated both in words as well as in figures. If there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

6. Payment:

(a) 100% payment will be made against physical delivery, inspection, installation, training of the Equipment/Machinery/Instrument etc. in the institute, receipt of satisfactory working report of the Equipment / Machinery/Instrument etc. and receipt of Performance Bank Guarantee @ 3%.

7. **Warranty: Rates should be quoted with comprehensive warranty.** Besides this, policy regarding after sale service on the expiry of warranty period of Equipment / Machinery/Instrument etc. may be explained. The bidders should attach duly signed and stamped certificate of **warranty** as per **Annexure-F** with the technical bid.

8. Training: In house training (where applicable) after the installation and commissioning of Equipment / Machinery/Instrument etc. shall be provided by the supplier.

9. **Delivery:** Delivery date will be mentioned in the supply order. The time and date of delivery or dispatch stipulated in a supply order shall be deemed to be the essence of the supply order and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery, the delayed consignment will be accepted subject to penalty as laid down in the supply order, which will be recovered from the pending payments.

Read and Accepted.

(Signature & Stamp of Tenderer)



1. No recovery of penalty will be made, if the delayed supplies are acceptable by extending the delivery period by the Director with our any LD charges.
 2. Director will allow extension on the request of the supplier by recording in writing that in exceptional circumstances the supply was beyond the control of the supplier and there was no loss to the institute.
 3. Penalty on account of delay, Director NIT, Jalandhar reserves the right to impose 0.5% (Half) per cent penalty per week on account of delay in supply, if delivery received after expiry of the original delivery period. The total penalty will not exceed 10% of the value of the delayed goods.
- 10. Installation:** Supplier has to install the Equipment / Machinery/ Instrument within two to three weeks from the receipt of the Equipment / Machinery/Instrument etc. in NIT Jalandhar.
- 11.** Spares and Accessories, wherever required should be quoted separately and clearly, even if these are not asked for.
- 12. Site Preparation:** The supplier shall inform NIT Jalandhar about the site preparation, if any, needed for the installation, immediately after receipt of the supply order. Supplier must provide complete details regarding space and all infrastructural requirements needed for the Equipment / Machinery/Instrument etc which NIT Jalandhar should arrange before the arrival of Equipment / Machinery/Instrument etc to ensure its early installation and smooth operation thereafter. The supplier may offer his advice and render assistance to NIT Jalandhar in the preparation of the site and other pre installation requirements.
- 13.** The total scope of work includes the supply, installation, satisfactory commissioning and testing of the Equipment / Machinery/Instrument etc by the supplier, training at NIT Jalandhar, method development and validation for parameters as mentioned in specifications at **Annexure-A**. The supplier will complete installation & Commissioning of Machine within two to three weeks from the date of receipt of Equipment / Machinery/Instrument etc. of NITJ.
- 14.** Details about the service center for the quoted Equipment / Machinery/Instrument etc. in India may be mentioned.

Read and Accepted.

(Signature & Stamp of Tenderer)



Acceptance

We _____ read and accept the instructions to the tenderer, terms & conditions and all other documents as mentioned in the tender and shall comply with them strictly.

Name of Bidder _____

Signature

Address _____

Seal of firm:

Date:



Questionnaires A & B

QUESTIONNAIRE FOR PLANT & MACHINERY

Note: Please submit the reply in detail and also enclose the necessary documents with proof where required as per Questionnaire. These documents must be submitted in the technical bid document.

Please state that you have submitted your quotations as per procedure mentioned below:-

➤ Bids consisting of technical details bringing out clearly in a separate sheet, the deviation in the specifications if any from that of tender enquiry specifications along with commercial terms and tender form.

1. Please attach list duly signed by you, for such spare parts and tools which are absolutely essential for proper maintenance and operation of machine for a period of two years giving full particulars of spare and tool with a price of each spare parts and tools separately.
2. Please confirm that you have adequate servicing and spare parts facilities in India in respect of Equipment /Item tendered by you or that you should arrange to provide such facilities simultaneously.
3. Please indicate that you guaranteed that before going out of production of spare parts, you will give adequate advance notice to the purchaser so that the institute may order his requirements of spares in one lot, if he so desire.
4. Please indicate that you guaranteed that if you go out of production of spare parts, then you will make available prints, drawings of the spare parts and specifications of the material at no cost if and when required in connection with Equipment /Item to enable the purchaser to fabricate or procure spare parts from other sources.
5. Please confirm that you undertake to enter into a rate contract with the purchaser to supply spare parts on an agreed basis for an agreed period.
6. Status:-
 - a) Indicate whether you are ISU or SSI
 - b) Are you registered with Government e-Marketing (GeM) for the item quoted? If so indicate whether there is any monetary limit or registration.
 - c) If you are a small scale unit registered with NSIC under single point registration scheme whether there is monetary limit.
7. a) If you are registered either with NSIC or with Government e-Marketing (GeM), please State whether you are registered with Directorate of industries of the state government concerned.

b) If so, confirm whether you have attached a copy of the certificate, issued by Director of industries.
8. Please indicate:-
Name & Full Address of your Banker
9. Please indicate whether you agree to submit advance samples if called upon to do so within the specified period of 21 days.



10. Business name and constitution of firm:-
- The Indian company Act.1956
 - Indian partnership Act.1932
 - Any act, if not, who are the owner/partners (please give full name and address)
11. Whether the tendering firm is / are:-
- Manufacturers authorized agents
 - Holders stock of the stores tendered for
 - NBI manufacturer's agents please enclose with tender the copy of manufacturer's authorization.**
12. Please state whether the inspection clause is acceptable to you
13. Here state specifically:-
- Whether the price quoted by you is to the best of your knowledge and belief is not more than the price usually charged by you on stores of the same natures, class of description to any private purchase either foreign or as well as government purchaser. If not state the reason thereof if any also indicates the margin of Difference.
 - In respect of indigenous items for which there is a controlled price fixed by law, the price quoted shall not be higher than that the controlled price and rates available on DGS&D/ Government e-Marketing (GeM) contract. The reason thereof should be stated.
14. State whether business dealing with you has been banned by Ministry /Department of supply or any other Govt. Department.
15. Please confirm that you have read all the instruction carefully and have complied with accordingly.

(Signature of Tenderer)

(_____)

1. Full Name & Address of the person signing

(_____)

2. Whether signing as proprietor /partners



PERFORMA FOR PERFORMANCE STATEMENT

(For the Period of last 3 years)

e-Tender Notice No. NITJ/PUR/IPE/111/19/e-tender No-77/2021						
Sr. No.	Order (full placed address of purchaser)	Order No. & dated	Description And Qty. of Stores Ordered	Value of Order	Date of Completion of delivery	Has the Equipment/Item been satisfactory commissioned



Internet of Things Lab Requirement

Annexure-I

S. No	Items	Qty
1	IOT Sensor Node / Mote training Hardware Kit <ul style="list-style-type: none">• Device should be with 8-bit Microcontroller• Should support UART, SPI, I2C interface• Clock Speed of 16 MHz, Minimum 16 GPIO Pins• Should have 6 channel 10-bit ADC for analog signal interface• Should be based on RISC architecture• Should contain 32KB Flash and 2KB of SRAM• On board emulator for programming• Should have USB interface for connecting with PC• Suitable USB cable to connect with PC Additional points: <ul style="list-style-type: none">○ Device should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use.○ All accessories must be inside one box○ With experiment list and sample codes○ Manual with details in complete format must be supplied along with the trainer.○ Provision of fuse and extra fuse also to be supplied.	15
2	IOT Wireless Sensor Node (WiFi + BLE) <ul style="list-style-type: none">• Device should be with Energy efficient 32-bit Dual Core Processor• Should support 3 × UART, 4 × SPI, 2 × I²C, 2 × I²S• Clock Speed of 240 MHz, Minimum 34 GPIO Pins• Should have 18 channel 12-bit ADC for analog interface• Should have 2 channel 8 bit DAC• Should contain 32 Mega Bits Flash, 520 KB of RAM and SD card slot• Capable of Programming minimum 4 different Low Power Modes• Advanced Encryption Standard (AES256) Accelerator, Hash (SHA-2)• On board emulator for programming• Should support Open source GUI for development IDE including µPython• Should have interface for connecting Sub1GHz RF, ZigBee modules• Should have inbuilt Wi-Fi and Bluetooth, BLE• Sensor node should be capable of re-programming• Should support IPV4, IPV6, TCP/IP stack• Should have built in Temperature, Light sensor, PIR, RGB LED and 3x3 Keypad, Pot meter for ADC• Should have built in, 128x64 OLED color graphics display, Accelerometer and RH• Suitable USB cable to connect with PC Additional points:	15

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	<ul style="list-style-type: none">○ Device should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use.○ All accessories must be inside one box○ With experiment list and sample codes○ Manual with details in complete format must be supplied along with the trainer.○ Provision of fuse and extra fuse also to be supplied.	
3	IOT Wireless Camera Sensor Node (Built in camera)	10
	<ul style="list-style-type: none">• Device should be with Energy efficient 32-bit Dual core Processor• Should have inbuilt Wi-Fi and Bluetooth , BLE• Should support IPV4, IPV6, TCP/IP stack• Ultra-small 802.11b/g/n Wi-Fi + BT/BLE SoC module• Low-power dual-core 32-bit.CPU for application processors• Up to 240MHz, up to 600 DMIPS• Built-in 520 KB SRAM, external 4M PSRAM• Supports interfaces such as UART/SPI/I2C/PWM/ADC/DAC• Support for images WiFi upload• Built in SD card Module• Built in OV2640 camera with built-in flash• Built in USB to UART Programmer <p>Additional points:</p> <ul style="list-style-type: none">○ Device should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use.○ All accessories must be inside one box○ With experiment list and sample codes○ Manual with details in complete format must be supplied along with the trainer.○ Provision of fuse and extra fuse also to be supplied.	
4	IOT Processing Module	5
	<ul style="list-style-type: none">• Broadcom 2711, 64-bit quad-core Cortex-A72 processor• 4GB LP DDR4 RAM• True Gigabit Ethernet port• 2 x USB 3.0 "Super-Speed" ports• 2 x USB 2.0 "High-Speed" ports• 802.11b/g/n/ac wireless LAN (2.5 GHz & 5GHz)• Bluetooth 5.0• Dual micro-HDMI ports, 4K UHD video• H.265 decode (4kp60)H.264 decode (1080p60)• OpenGL ES 1.1, 2.0, 3.0 graphics• Case for the processing module• 5V3A USB-C power supply• 32 GB SD card (Class 10), HDMI cable• RASPBERRYPI-SENSEHAT	

Handwritten signature

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	<ul style="list-style-type: none">• Touch monitor 7" screen with HDMI interface included <p>Additional points:</p> <ul style="list-style-type: none">○ Device should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use.○ All accessories must be inside one box○ With experiment list and sample codes○ Manual with details in complete format must be supplied along with the trainer.○ Provision of fuse and extra fuse also to be supplied.	
5	IOT Communication Module- 1 (BLE on ISM Band)	10
	<ul style="list-style-type: none">• Frequency: 2.4GHz ISM.• Protocol: BLE 4.0.• Max transmitting power: max. 4dBm.• Modulation System: GFSK.• Serial Baud Rate: 1200 to 115200 bps.• Reference Distance: 80 meters.• Speed - 1Mbps (Max) <p>Additional points:</p> <ul style="list-style-type: none">○ Device should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use.○ All accessories must be inside one box○ With experiment list and sample codes○ Manual with details in complete format must be supplied along with the trainer.○ Provision of fuse and extra fuse also to be supplied.	
6	IOT Communication Module- 2 (2.4GHz nRF)	15
	<ul style="list-style-type: none">• NRF24L01 2.4GHz Antenna Wireless Transceiver Module• Operating speeds up to 2Mbps, GFSK modulation efficiency,• Should be suitable for industrial control applications• Should have Built-in hardware CRC error detection, Multipoint communication address control• Should have Built-in 2.4Ghz antenna• Should have Built-in voltage regulator• Operating voltage 1.9 to 3.6 V , Low power mode only 1uA <p>Additional points:</p> <ul style="list-style-type: none">○ Device should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use.○ All accessories must be inside one box○ With experiment list and sample codes○ Manual with details in complete format must be supplied along with the trainer.	

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	<ul style="list-style-type: none"> o Provision of fuse and extra fuse also to be supplied. 	
7	IOT Communication Module- 3 (2.4GHz Zigbee) <ul style="list-style-type: none"> • Integrated, Wire Antenna • Interoperable with other ZigBee-compliant devices • Programmable versions with onboard microprocessor enable custom ZigBee application development • Data Rate: RF 250 Kbps, Serial up to 1 Mbps • Transmit Power: 3.1 mW (+5 dBm) • Channels: 16 channels • Range: indoor 200 ft (60 m), Outdoor (LOS) 4000 ft (1200 m) <p>Additional points:</p> <ul style="list-style-type: none"> o Device should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use. o All accessories must be inside one box o With experiment list and sample codes o Manual with details in complete format must be supplied along with the trainer. o Provision of fuse and extra fuse also to be supplied. 	6
8	IOT Sensor & Actuator kit <ul style="list-style-type: none"> • ECG Monitor Sensor Module Qty - 2 <ul style="list-style-type: none"> o Designed to extract, amplify, and filter small biopotential signals. o Leads-Off Detection. o Shutdown Pin. o LED Indicator. o Analog Output. o 3.5 mm Jack for Biomedical Pad Connection. o Interface to Wireless sensor node Bluetooth, Wifi, Zigbee module • PM2.5 GP2Y1010AU0F Air Quality Sensor Qty - 2 <ul style="list-style-type: none"> o Sensitivity 0.5V/(0.1mg/m3) ,Power supply voltage 5V ± 2V ,Maximum working current 20mA, Operating temperature range - -10 to 60 °C, Response time 10ms , Particle diameter resolution Less than 0.1um • O3 Gas Sensor Qty - 2 <ul style="list-style-type: none"> o Analog output o The analog output increases with the concentration, the higher the voltage the higher the concentration the ozone gas with high sensitivity (detection concentration range 10PPM-1000PPM Ozone) • NO2 ,NH3, CO Gas Sensor Qty - 2 <ul style="list-style-type: none"> o Air Quality Sensor Three fully independent sensing elements on one package o Built with ATmega168PA I2C interface with programmable address Heating power can be shut down for low power Detectable gases o Carbon monoxide CO 1 – 1000ppm o Nitrogen dioxide NO2 0.05 – 10ppm o Ammonia NH3 1 – 500ppm • WATER PH SENOSR Qty - 2 <ul style="list-style-type: none"> o Module Power : 5.00V o Module Size : 43 x 32mm(1.69x1.26") o Measuring Range :0 - 14PH o Measuring Temperature: 0 - 60 °C o Accuracy : ± 0.1pH (25 °C) 	1

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<ul style="list-style-type: none">○ Response Time : ≤ 1min○ pH Sensor with BNC Connector, pH2.0 Interface ,Gain Adjustment Potentiometer , Power Indicator LED● WATER TDS SENSOR Qty - 2<ul style="list-style-type: none">○ Input Voltage: 3.3 ~ 5.5V○ Output Voltage: 0 ~ 2.3V○ Working Current: 3 ~ 6mA○ TDS Measurement Range: 0 ~ 1000ppm○ TDS Measurement Accuracy: ± 10% F.S. (25 °C)○ Module Size: 42 * 32mm○ Module Interface: PH2.0-3P○ Electrode Interface: XH2.54-2P, TDS probe, Number of Needle: 2, Total Length: 83cm○ Connection Interface: XH2.54-2P, Color: Black, Other: Waterproof Probe● Soil Temperature and Moisture Sensor Qty - 2<ul style="list-style-type: none">○ Relative humidity and temperature measurement○ With dew point All calibration, digital output○ Excellent long term stability Waterproof package, and can be used for measurement of soil○ Low energy consumption○ Body dimensions: 14mm diameter, 50mm long○ Cable length: 1 ft○ Humidity readings with 4.5% accuracy○ Temperature readings with 0.5 degree C accuracy○ Working Temperature/Humidity range: -40°C ~ 120°C, 0~100% RH● Smoke sensor MQ2 Qty - 2<ul style="list-style-type: none">○ Operating Voltage is +5V○ Can be used to Measure or detect LPG, Alcohol, Propane, Hydrogen, CO and even methane○ Can be used as a Digital or analog sensor● Motion Sensor Qty - 2<ul style="list-style-type: none">○ Operating voltage range: DC 4.5-20V, Level output: High 3.3 V /Low 0V, Quiescent Current: <60uA○ Lens size sensor: Diameter:23mm(Default)○ Angle Sensor: <140 ° cone angle○ Distance Measuring Range 3 to 7m (can be adjusted)● Light Sensor Qty - 2<ul style="list-style-type: none">○ Operating voltage 5v ,LDR ,○ current(mA) 0.5-3 mA○ Response time - 20 ~ 30 milliseconds○ Peak Wavelength - 540 nm● Magnet Sensor Qty - 2<ul style="list-style-type: none">○ Output high and low ,operating voltage 5v Real time application for door closing and opening operation● Proximity Sensor Qty - 2<ul style="list-style-type: none">○ . Output Type: PNP NO(Normally Open) Detecting Distance: 4mm 1% Theory: Inductive Sensor Wire Type: 3 Wire Type (Brown, Blue, Black) Switch Appearance Type: Cylinder Type, Brass Shell Supply Voltage: DC 3-36V Current: 300mA Detect Object: Metal Diameter: 12mm Cable Length: 1.1M Package Includes: 1x Inductive Proximity Sensor Switch. Real time application in industry for production counting Display● Ultrasonic Sensor Qty - 2<ul style="list-style-type: none">○ Operating Voltage: 5V(DC) Output Signal: Electric frequency signal, high level 5V, low level 0V Sensor Angle: Not more than 15 degrees; Input Trigger Signal: 10us TTL impulse Echo Signal: output TTL PWL signal Detection Distance: 2cm-450cm● 4 channel relay card Qty - 2	
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Ding

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	<ul style="list-style-type: none">• No. of Channel: 4 Trigger Voltage: 5VDC Triode drive, increasing relay coil• High Impedance controller pin Pull-down circuit for the avoidance of malfunction• Power supply indicator and Control indicator lamp• Power supply and relay instructions, lit, the disconnect is off;• The input signal, signal, common Terminal and start conducting; <ul style="list-style-type: none">• L293 motor driver card Qty - 2<ul style="list-style-type: none">• New L293D motor shield, the input voltage DC4.5-25V• 600mA output current capability per channel• 1.2A peak output current(non-repetitive) per channel• Enable facility Over temperature protection• Logical "0" input voltage up to 1.5V(High noise immunity)• DC motor Qty - 5<ul style="list-style-type: none">○ 140 RPM, 5V, Torque 78.45mNm,• Stepper motor Qty - 5<ul style="list-style-type: none">• Rated voltage: 5V DC Reduction Ratio: 64:1• Step Angle: 5.625°/64 Frequency: 100Hz• Self-positioning Torque: >34.3mN.m• Friction torque: 600-1200 gf.cm• Pull in torque: 300 gf.cm• Servo motor Qty - 5<ul style="list-style-type: none">• Model: MG995• Weight: 55 gm• Operating voltage: 4.8V~ 7.2V• Servo Plug: JR• Stall torque @4.8V : 9.4kg-cm• Stall torque @6.6V : 11kg-cm <p>Additional points:</p> <ul style="list-style-type: none">○ All interface must be in individual boxes with complete provision of power supply and all necessary interface as required. Should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use.○ All accessories must be inside one box○ With experiment list and sample codes○ Manual with details in complete format must be supplied along with the trainer.○ Provision of fuse and extra fuse also to be supplied.	
9	Vibrator Feeder with load cell and spare electromagnet (With two Controllers i.e. manual and PLC integrable)	1

Long

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	<ol style="list-style-type: none"> 1. Electromagnetic Vibrator Feeder (CE Certified) Qty-1 Capacity: 1 ton/hour Vibrator unit Specifications 230 V, 50 Hz, 0.5 Amp 2. Vibrator controller digital (Manual controlled) Qty-1 3. Vibrator controller (Should have the capability to be interfaces with PLC) Qty-1 Flat tray with hopper for feeding Qty-1 Material: SS 304 Size: Length 200, Width 150mm, Height 50mm, capacity 250 kg/hour Hopper capacity 10 kg for pulses 4. Loadcell 2kg capacity Qty-1 5. Spare Electromagnet Qty-1 230 V, 50 Hz, 0.5 Amp 	
10	Human Machine Interface (HMI – Touch screen) <ul style="list-style-type: none"> • 7" (800*600) 65,536 Colors TFT • Cortex-A8 800MHz CPU • Built-in Ethernet • 2 sets of COM ports / 1 extension COM port • Delta Real Time OS • Supports SD card • ROM 256 MB, RAM 256 MB • 1 USB Host, 1 USB Client • Operating Voltage 24 VDC Additional points: <ul style="list-style-type: none"> ○ Device should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use. ○ All accessories must be inside one box ○ With experiment list and sample codes ○ Manual with details in complete format must be supplied along with the trainer. ○ Provision of fuse and extra fuse also to be supplied. ○ All input output connection must be on the front side, with connection details 	1
11	Servo Motor & Drive <ul style="list-style-type: none"> • Servo Motor with 400 W • MINAS A6 MHPF Series High inertia Type Protection class IP65 • Voltage specifications 200 V Rated current (A (rms)) 2.1 • Rated torque (N - m) 1.27 Continuous stall torque (N - m) 1.40 • Momentary Max. peak torque (N - m) 4.46 Max. current (A (o-p)) 10.4 • Rated rotational speed (r/min) 3000 Rated rotational Max. speed (r/min) 6500 • Rotary encoder: specifications 23-bit Absolute/incremental system • MBDLT255F Servo Driver • Input voltage: Single/3-phase 200 V • Encoder feedback 23-bit (8388608 resolution) absolute encoder 	1

Devi

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	<ul style="list-style-type: none"> • Communication function USB, RS232, RS485, Modbus-RTU • Control mode Switching among the following 7 mode is enabled, • (1) Position control, (2) Speed control, (3) Torque control, (4) Position/speed control, (5) Position/Torque control, (6) Speed/Torque control, (7) Full-closed control. <p>Additional points:</p> <ul style="list-style-type: none"> ○ Device should be supplied with wooden safety enclosure, easy to use and store system, with all I/O and connection facility open to use. ○ All accessories must be inside one box ○ With experiment list and sample codes ○ Manual with details in complete format must be supplied along with the trainer. ○ Provision of fuse and extra fuse also to be supplied. 	
12	Soldering Iron 60W 220V Temperature Adjustable, with Magnifier Tool stand	5
	<ul style="list-style-type: none"> • SOLDERING IRON WITH BITS • Head Style – Pencil • Heating Element Type – Silver • Dimension: 22.5 X 2.5 X 0.8 CM • Power – 60W, 220V • Stand Dimension 14.8 x 16.3 x 10.3 cm (L x W x H) • Magnifier Tool 3.5x & 12X with Soldering Iron Stand Adjustable Alligator Clip LED Magnifying Glass Len Workstation Light Battery Powered 	

Additional Mandatory Requirements:

1. The development of an online cloud-based IoT platform, specifically for IoT Lab, NIT Jalandhar is also included in the price quoted by the supplier for enabling the monitoring, analysis of and controlling of various IoT projects. The platform shall allow for the creation of personalized dashboards to visualize any data in the system. The Platform shall provide the capability of custom report creation. The Platform shall provide the functionality to export data in the form of XML, CSV, XLS, email. The domain name and cloud space to be provided and maintained by the supplier for at least three years from the date of supply.
2. The IoT platform should support wide range of widget library for faster development of applications. These include but not limited to Event Chart, Grid, Label Chart, Pie Chart, Progressive Gauge, Proportional Chart, Range Chart, Tag Cloud, Time Series Chart, and XY Chart, X-axis label, Bubble chart, LED label, Breadcrumb, Icon, Image, Slider, etc.
3. The quoted price should include installation and one day training.
4. The company must have a strong background of dealing in the business of IoT related products. In last three years, the company should have an average turnover of Rs. 50 Lakhs/year. The CA certified copy of the same is to be attached.
5. The company should have ISO certification.
6. The company should be MSME/NSIC registered.

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FORMAT FOR PERFORMANCE BOND/GUARANTEE

(Undertaking from the supplier on a Non Judicial Stamp Paper of requisite duly attested by Notary)
In consideration for "The Registrar, National Institute of Technology Jalandhar (hereinafter called NIT Jalandhar) having agreed to release the payment of net value as per terms and conditions of a concluded Order No. _____ dated _____ (**hereinafter called "the order"**) for supply of _____ (**here in after called "the Equipment /Item"**) to us Messrs _____ (**hereinafter called "the supplier"**) on submission of a Performance Bond to the satisfaction of NIT Jalandhar for the due performance of the said order.

We, Messer's _____ hereby submit the FDR/TDR No. _____ issued by _____ (Name of Bank) for _____ pledged in favour of Registrar, NIT Jalandhar as performance guarantee amount and hereby irrevocably, unconditionally and absolutely undertake against any loss or damage caused or suffered by NIT Jalandhar by reason of any failure of the supplier to perform or omission or negligence to perform any part of its obligations to the satisfaction of NIT Jalandhar in terms of the order.

We, the supplier, do hereby authorize Registrar, NIT Jalandhar to forfeit this Performance Guarantee amount / undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the NIT Jalandhar stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the NIT Jalandhar by reason of any breach by us of any of the terms and conditions contained in the said order or by reason of our failure or omission or negligence to perform the said order or any part thereof. We, the Supplier, undertake to pay to NIT Jalandhar any amount so demanded by NIT Jalandhar, notwithstanding:

- a) Any dispute or difference between NIT Jalandhar and supplier or any other person or between the supplier or any person or any suit or proceeding pending before any court or tribunal or arbitrator relating thereto; or
- b) The invalidity, irregularity or unenforceability of the order; or
- c) Any other circumstances which might otherwise constitute discharge of this guarantee, including any act of omission or commission on the part of NIT Jalandhar to enforce the obligations by the supplier or any other person for any reason whatsoever.

We, the Supplier, further agree that the performance Bond/ Guarantee herein contained shall be continued one and remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till all the dues of the NIT Jalandhar under or by virtue of the said order have been fully paid and its claims satisfied or discharged or till the office of the Registrar, NIT Jalandhar certifies that terms and conditions of the said order have been fully and promptly carried out by us and accordingly discharges this Performance Bond/ Guarantee.

We, the Supplier, further agree with NIT Jalandhar, that NIT Jalandhar shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said order or to extend time of performance by the said supplier from time to time or to postpone for any time or from time to time and of the powers exercisable by the NIT Jalandhar against the said supplier and forbear or enforce any of the terms and conditions relating to the order and we shall not be relieved from our liability by reason of any such variation or extension being granted to us or for any forbearance, act or omission on the part of NIT Jalandhar or any indulgence by NIT Jalandhar to us or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This Performance Bond/Guarantee will not be discharged due to the change in the constitution of the supplier. We, the Supplier, undertake not to revoke this Performance Bond / Guarantee except with the prior consent of NIT Jalandhar in writing.

The disputes relating to this Bank Performance Bond / Guarantee shall be resolved as per the terms and conditions of the order.



Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY

G T Road By Pass, Jalandhar-144011, Punjab (India)

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Annexure "C"

FORMAT FOR PERFORMANCE BOND (BANK GUARANTEE)

In consideration for the Registrar, National Institute of Technology Jalandhar, (*hereinafter called NIT Jalandhar*) having agreed to release the payment of net value as per terms and conditions of a concluded Order No. _____ dated _____ (*hereinafter called 'the order'*) for supply of _____ (*hereinafter called 'the Equipment /Item'*) to Messrs _____ (*hereinafter called 'the supplier'*) on submission of a Bank Guarantee to the satisfaction of NIT Jalandhar for the due performance of the said order.

We, _____ (*hereinafter called 'the Bank'*) at the request of the supplier do, as a primary obliger and not merely as surety, hereby irrevocably, unconditionally and absolutely undertake against any loss or damage caused or suffered by NIT Jalandhar by reason of any failure of the supplier to perform or omission or negligence to perform any part of its obligations to the satisfaction of NIT Jalandhar in terms of the order.

We, the Bank do hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from NIT Jalandhar stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by NIT Jalandhar by reason of any breach by the said supplier of any of the terms and conditions contained in a said order or any part thereof. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this guarantee, which shall not be considered as satisfied by any intermediate payment or satisfaction of any part of or obligation hereunder. However, our liability under this guarantee shall be restricted to an amount not exceeding _____.

We, the Bank, undertake to pay to NIT Jalandhar any amount so demanded by NIT Jalandhar, notwithstanding

a). Any dispute and difference between NIT Jalandhar and supplier or any other person or between the supplier or any person or any suit or proceeding pending before any court or tribunal or arbitrator relating thereto or

- a). The invalidity, irregularity or unenforceability of the order or
- b). Any other circumstances which might otherwise constitute discharge of this guarantee, including any act of omission or commission on the part of NIT Jalandhar to enforce the obligations by the supplier or any other person for any reason whatsoever.

We, the Bank, further agree that the guarantee herein contained shall continue and remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till all the dues of NIT Jalandhar under or by virtue of the said order have been fully paid and its claims satisfied or discharged or till the office of the Registrar, NIT Jalandhar confirms that the terms and conditions of the said order have been fully and promptly carried out by the said supplier and accordingly discharge this guarantee.

We, the Bank, hereby agree and undertake that any claim which the bank may have against the supplier shall be subject to and subordinate to the prior payment and performance in full of all the obligations of the bank hereunder and the bank will not, without prior written consent of NIT Jalandhar, exercise any legal rights or remedies of any kind in respect of any such payment or performance so long as the obligations of the bank hereunder remain owing and outstanding, regardless of the insolvency, liquidation or bankruptcy of the supplier or otherwise. We, the Bank, will not counter claim or set off against its liabilities to NIT Jalandhar hereunder any sum outstanding to the credit of NIT Jalandhar with it.

We, the Bank, further agree with NIT Jalandhar, that NIT Jalandhar shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said order or to extend time of performance by the said supplier from time to time or to postpone for any time or from time to time and of the powers exercisable by the NIT Jalandhar against the said supplier and forbear or enforce any of the terms and conditions relating to the order and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said supplier or for any forbearance, act or omission on the part of NIT Jalandhar or any indulgence by NIT Jalandhar to the said supplier or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This guarantee will not be discharged due to the change in constitution of the Bank or the supplier.

We, the Bank, lastly undertake not to revoke this Guarantee during its currency except with the prior consent of NIT Jalandhar in writing.

The disputes relating to this Bank Guarantee shall be resolved as per the terms and conditions of the order.



FORMAT FOR MANUFACTURER'S AUTHORIZATION FORM

To,
The Registrar
Dr B. R Ambedkar National Institute of Technology
Jalandhar

Sub. : e-Tender for " _____ ".

Dear Sir,

We, _____, who are established and reputed manufacturers of _____, having factory/office at _____, hereby authorize M/s _____ [name & address of agents/distributors] to bid, negotiate and conclude the order with you for the above goods manufactured by us.

We shall remain responsible for the tender/Agreement negotiated by M/s _____, jointly and severely. No company or firm or individual other than M/s _____ are authorized to bid, negotiate and conclude the order in regard to this business against this specific tender as for all business in the entire territory of India.

We hereby extend our full guarantee and warranty as per the terms and conditions of tender for the goods offered for supply against this invitation for bid by the above supplier.

****specify in detail manufacturer's responsibilities the services to be rendered by***

M/s _____ are as under:

- i) _____
- ii) _____

[Specify the services to be rendered by the agent/distributor] In case duties of the agent/distributor are changed or agent/ distributor is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new Indian Agent failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Indian Agent/ distributor.

Yours faithfully,

[Name & Signature] For and on behalf of M/s. _____ [Name of manufacturer]



DECLARATION REGARDING BLACKLISTING / DEBARRING FOR TAKING PART IN TENDER

Self Attested

I / We _____(Tenderer) hereby declare that the firm / agency namely M/s. _____ has not been blacklisted or debarred in the past by Union / State Government or organization from taking part in Government tenders in India.

Or

I / We _____(Tenderer) hereby declare that the Firm / agency namely M/s. _____ was blacklisted or debarred by Union / State Government or any Organization from taking part in Government tenders for a period of

_____ years w.e.f. _____ to _____. The period is over on _____ and now the firm/company is entitled to take part in Government tenders.

In case the above information found false I / we are fully aware that the tender/ contract will be rejected / cancelled by Director, NIT Jalandhar, and EMD / SD shall be forfeited.

DEPONENT

Attested:

(Stamp of Company with authorized sign)

Name _____

Address _____



CERTIFICATE OF WARRANTY

- i). We certify that the warranty shall be for a period of _____ years for _____ and starting from the date of satisfactory installation, commissioning and handing over of the Equipment /Item and of the works conducted therewith covered under the supply order in working order. During the **warranty period, I/we shall provide free "after sale service" and the replacement of any part(s) of the** Equipment /Item or rectification of defects of work of the Equipment /Item will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above warranty shall begin only from the date of satisfactory and faultless functioning of the Equipment /Item for 60 days at NIT Jalandhar premises. The benefit of change in dates of the warranty period shall be in the interest of the use/your organization.
- ii). During the warranty period, we shall provide at least _____ **preventive maintenance visits.**
- iii). Uptime Guarantee: During the warranty period, we will be responsible to maintain the Equipment /Item in good working conditions for a period 350 days (i.e. 95% uptime) in a block of 365 days.
- a). All complaints will be attended by us within 2 working days of receipt of the complaint in our office.
- b). In case there is delay of more than 2 days in attending to a complaint from our side then you can count the number of days in excess of the permissible response time in the downtime. The above said response time of 2 days for attending to a complaint by us will not be counted in the downtime.
- c). **Penalty:** We shall pay a penalty equivalent to **0.5 % of the FOB/CIF** value of the Equipment /Item for every week or part thereof delay in rectifying the defect.
- Note: The right to accept the reason (s) for delay and consider reduction or wave off the penalty for the same shall be at the sole discretion of Director, NIT Jalandhar**
- iv). We certify that the Equipment /Item being/ quoted is the latest model and that spares for the Equipment /Item will be available for a period of at least _____ years and we also guarantee that we will keep the organization informed of any update of the Equipment /Item over a period of _____ years.
- v). We guarantee that in case we fail to carry out the maintenance within the stipulated period, NIT Jalandhar reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs/maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of Performance Bank Guarantee, the same shall be recoverable from us with/without interest in accordance with the circumstances.
- vi). We shall try to repair the Equipment /Item at NIT Jalandhar premises itself. However, the Equipment /Item will be taken to our site on our own expenses in case it is not possible to repair the same at NIT Jalandhar. We shall take the entire responsibility for the safe custody and transportation of the Equipment /Item taken out for repairs till the Equipment /Item is rehabilitated to the NIT Jalandhar after repair Any loss of Equipment /Item or its accessories under its charge on account of theft, fire or any other reasons shall be at our sole risk and responsibility which will be compensated to NIT Jalandhar for such losses at the FOB/CIF value for the damaged/lost Equipment /Item part, including accessories.
- vii. We undertake to perform calibration after every major repair/breakdown/taking the Equipment /Item for repair out of NIT Jalandhar premises.
- viii. In case of extended warranty, we undertake to carry out annual calibration of the Equipment /Item.
- ix. We guarantee that we will supply spare parts if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.
- x. We guarantee to the effect that before going out of production of spare parts, we will give adequate advance notice to you so that you may undertake to procure the balance of the life time requirements of spare parts.
- xi. We guarantee the entire unit against defects of manufacture, workmanship and poor quality of components.

Signature & Seal of the Manufacturer/Tenderer



SELF DECLARATION
[For Local Content of Products, Services or Works]

To,
 The Director
 Dr.B.R.Ambedkar NIT Jalandhar

1. With reference to Order No. P- 45021/2/2017-PP(BE-II) dated 16-09-2020 of DPIIT, Ministry of Commerce and Industry, Govt. of India, we fall under the following category of supplier (please tick the correct category) for the items for which this tender has been floated and being bided.

- Class I local supplier – has local content equal to more than 50%. Local contents added at _____(name of location).
- Class II local supplier – has local content more than 20% but less than 50%. Local contents added at _____(name of location).
- Non-local supplier – has local content less than or equal to 20%. Local contents added at _____(name of location).

2. We are solely responsible for the abovementioned declaration in respect of category of supplier. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which we may can be debarred for up to 2 years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature & seal of the company

Name and address of the organization

.....

Note: In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier' / 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.